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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/656,166	09/06/2000	Brad Kollmyer	PM PM271173	8916
7278	7590	10/19/2005	EXAMINER	
DARBY & DARBY P.C. P. O. BOX 5257 NEW YORK, NY 10150-5257			NALVEN, ANDREW L	
			ART UNIT	PAPER NUMBER
			2134	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/656,166	KOLLMYER ET AL.
	Examiner Andrew L. Nalven	Art Unit 2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 28 July 2005.

2a) This action is FINAL.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-76, 78-80, and 82-99 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-76, 78-80 and 82-99 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 06 September 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

1. Claims 1-76, 78-80, and 82-99 are pending.
2. Amendment received on 11 March 2005 has been entered and considered.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1-76, 78-80, and 82-99 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
5. Claims 1-14, 16-21, 23-25, 29-30, 36, 39-40, 42, 48-50, 53-57, 61-63, 65-70, 73-76, 78-80, 84-89 and 94-97 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No 5,420,866 in view of Jackowski et al US Patent No. 6,141,686.
6. With regards to claims 1, 17, 25, 53, 61, 67, 69, 73 and 78-79, Wasilewski teaches a parser configured to parse a first portion of the data from a second portion

(Wasilewski, column 9 lines 30-36, Figure 1), an encrypter configured to encrypt the payload (Wasilewski, column 9 lines 30-36), a combiner configured to combine the payload portion of the data with the non-payload portion of the data wherein the non-payload portion of the data includes more than routing information (Wasilewski, column 9 lines 30-36, Figure 1, Figure 3B), and sending the received data including the payload portion and the non-payload portion over the network to the client (Wasilewski, column 8 lines 17-21 and Figure 2). Wasilewski fails to teach the determination as to whether the portion of data should be encrypted based upon the format of the data in the packet payload. Jackowski discloses an encrypter to determine if the payload portion of the data is to be encrypted by examining the payload portion of the data to recognize a predefined data type, and if it is to be encrypted to encrypt the payload portion of the data (Jackowski, column 17 lines 13-33, examines payload to determine the application type, encrypts if payload indicates a particular application type). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Jackowski's determination method with Wasilewski's conditional access system because it offers the advantage of providing a mechanism for encrypting messages related to important functions to decrease the likelihood of eavesdropping, snooping, or altering messages (Jackowski, column 17 lines 29-31, column 3 lines 34-39).

7. With regards to claims 2 and 88, Wasilewski as modified teaches data including streaming data (Wasilewski, column 7 line 64 – column 8 line 6).
8. With regards to claims 3, 30, and 42, Wasilewski as modified teaches the first portion of the data including payload data (Wasilewski, column 9 lines 30-31).

9. With regards to claims 4, 29, 54, 65, 68, 75, 85, and 89, Wasilewski as modified teaches the second portion of the data containing header and control data (Wasilewski, column 9 lines 34-36 and 51-62).
10. With regards to claims 5 and 6, Wasilewski as modified teaches a transmitter for configured to send the combined first and second portions of the data over the network to the client (Wasilewski, Figure 2) and a receiver configured to receive the data from the server before the data is sent over the network to the client (Wasilewski, Figure 2).
11. With regards to claim 7, Wasilewski as modified teaches a device configured to establish a data stream between the server and the client (Wasilewski, column 8 lines 22-30).
12. With regards to claims 8, 20, 39, and 95, Wasilewski as modified teaches a key negotiator configured to negotiate an encryption key with the client (Wasilewski, column 9 lines 37-58).
13. With regards to claims 9, 40, 56-57, 62-63, 76, 80, 94 and 96, Wasilewski as modified further teaches key negotiation and key exchange occurring during transmission of a stream (Wasilewski, column 9 lines 37-58).
14. With regards to claim 10, Wasilewski as modified teaches the encrypter being transparent to the server (Wasilewski, column 7 line 64 – column 8 line 13).
15. With regards to claim 11 (as best understood), Wasilewski as modified teaches key negotiation determining the correctness of a result (Wasilewski, column 13 lines 45-49, column 14 line 62 – column 15 line 6).

16. With regards to claim 12, Wasilewski as modified teaches a decrypter configured to decrypt the first portion of the data (Wasilewski, column 13 lines 41-49 and column 14 lines 21-25).
17. With regards to claim 13, Wasilewski as modified teaches the parser being configured to parse the data into different portions based on the media format (Wasilewski, column 13 line 50 – column 14 line 4).
18. With regards to claim 14, Wasilewski as modified teaches the encrypter being configured to encrypt the first portion of data based on the media format (Wasilewski, column 9 lines 51-54 and column 8 lines 37-40).
19. With regards to claim 16, Wasilewski as modified teaches an implementation on an encryption bridge (Wasilewski, Figure 2 Item 11).
20. With regards to claims 18 and 66, Wasilewski as modified teaches the data source being a server (Wasilewski, Figure 2).
21. With regards to claim 19, Wasilewski as modified teaches the determination of whether a stream is established between the server and client (Wasilewski, column 13 lines 39-49, column 14 line 62 – column 15 line 6).
22. With regards to claim 21, Wasilewski as modified teaches received data being streaming data (Wasilewski, column 7 line 64 – column 8 line 6) and key negotiation carried out during the streaming session (Wasilewski, column 9 lines 37-58).
23. With regards to claim 23, Wasilewski as modified teaches the encryption key being negotiated with a decryption shim on the client (Wasilewski, column 9 lines 37-58, Figure 2 Item 206, Figure 6 Items 138 and 140).

24. With regards to claim 24, Wasilewski as modified teaches the step of determining whether received data is streaming data (Wasilewski, column 13 lines 50-63).
25. With regards to claims 36 and 86, Wasilewski teaches a client receiving data over a network (Wasilewski, column 13 lines 35-39 and Figure 2), parsing the data into portions including a payload and non-payload portion (Wasilewski, column 13 line 50 – column 14 line 9), decrypting the payload portion of the data (Wasilewski, column 14 lines 21-44), and passing the decrypted payload portion of the data to a higher level of operations for play in the client (Wasilewski, column 15 lines 6-17 and Figure 6). Wasilewski fails to teach the determination as to whether the portion of data should be encrypted based upon the format. Jackowski discloses an encrypter to determine if the payload portion of the data is to be encrypted by examining the payload portion of the data to recognize a predefined data type, and if it is to be encrypted to encrypt the payload portion of the data (Jackowski, column 17 lines 13-33, examines payload to determine the application type, encrypts if payload indicates a particular application type). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Jackowski's determination method with Wasilewski's conditional access system because it offers the advantage of providing a mechanism for encrypting messages related to important functions to decrease the likelihood of eavesdropping, snooping, or altering messages (Jackowski, column 17 lines 29-31, column 3 lines 34-39).
26. With regards to claim 48, Wasilewski as modified teaches the payload data including multimedia data (Wasilewski, column 8 lines 52-57).

27. With regards to claims 49 and 50, Wasilewski as modified teaches the parser being configured to parse the data into different portions based on the data protocol used to transmit (Wasilewski, column 8 lines 31-35).
28. With regards to claim 55, Wasilewski as modified teaches streaming data included in the at least one data portion to remain unencrypted (Wasilewski, column 9 lines 19-36).
29. With regards to claim 70, Wasilewski as modified teaches the portion of the data to be encrypted includes media data encoded in a media format (Wasilewski, column 7 line 50 – column 8 line 21) and the encoder encrypts based on the media format (Wasilewski, column 14 lines 9-13).
30. With regards to claims 74 and 84, Wasilewski as modified teaches the downloaded data being included in the encrypted portion of the data (Wasilewski, column 8 lines 6-17).
31. With regards to claim 87, Wasilewski as modified teaches the encrypted portion of the transmitted data including media data (Wasilewski, column 8 lines 52-57), and the data transmitter being configured to send the decrypted media to the media player resident on the client (Wasilewski, Figures 2 and 6).
32. With regards to claim 97, Wasilewski teaches the determining of a plurality of portions of data (Wasilewski, column 9 lines 30-36, Figure 1), selectively encrypting the payload portion of the plurality of portions (Wasilewski, column 9 lines 30-36), authenticating a client to receive the selectively encrypted portion (Wasilewski, column 14 line 62 – column 15 line 6), and transmitting the selectively encrypted portion to the

authenticated client (Wasilewski, column 8 lines 17-21 and Figure 2). Wasilewski fails to teach the determination as to whether the portion of data should be encrypted based upon the format. Jackowski discloses an encrypter to determine if the payload portion of the data is to be encrypted by examining the payload portion of the data to recognize a predefined data type, and if it is to be encrypted to encrypt the payload portion of the data (Jackowski, column 17 lines 13-33, examines payload to determine the application type, encrypts if payload indicates a particular application type). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Jackowski's determination method with Wasilewski's conditional access system because it offers the advantage of providing a mechanism for encrypting messages related to important functions to decrease the likelihood of eavesdropping, snooping, or altering messages (Jackowski, column 17 lines 29-31, column 3 lines 34-39).

33. Claims 15, 26-28, 31-35, 37-38, 43-47, 52, 64, 71-72, 82-83, 90-93, and 99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No 5,420,866 and Jackowski et al US Patent No. 6,141,686, as applied to claims 1, 17, 36, 45, 61, 70, 81, 88, and 97 above, and in further view of Graunke et al US Patent No 5,991,399.

34. With regards to claims 15 and 71, Wasilewski as modified teaches a system where encryption algorithms may be changed (Wasilewski, column 9 lines 15-19) but fails to teach a pluggable core encoding an encryption algorithm. Graunke teaches a pluggable core for a decoding algorithm (Graunke, column 7 lines 40-46). At the time

the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize the ideas of Graunke's pluggable decoding core to fashion an encoding core because it offers the advantage of helping prevent a malicious user from learning the algorithm or key by making the key easily changeable (Graunke, column 4 line 63 – column 5 line 51).

35. With regards to claims 26-27, Wasilewski as modified fails to teach the determining if a shim is present or the downloading of the shim. Graunke teaches the determining if a shim is present or the downloading of the shim (Graunke, column 4 lines 45-50). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Graunke's method of downloading the shim because it offers the advantage of allowing cryptography to be dynamic by changing keys and methods thus increasing protection of digital content (Graunke, column 2 line 59 – column 3 line 3).

36. With regards to claim 28, Wasilewski as modified fails to teach the determining of whether an encryption key is current. Graunke teaches a determination as to whether the encryption key is current (Graunke, column 9 lines 7-15). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Graunke's method of checking if a key is current because it offers the advantage of allowing a system to use dynamically generated keys that change for different content thus increasing security and preventing a situation where a single stolen key may unlock all available content (Graunke, column 2 lines 52-67).

37. With regards to claims 31 and 43, Wasilewski as modified fails to teach the determining if a packet is the last packet in the data stream. Graunke teaches the determining if a packet is the last packet in the data stream (Graunke, column 9 lines 15-16).

38. With regards to claims 32 and 44, Wasilewski as modified teaches the use of a decryption shim but fails to teach receiving feedback from a decryption shim if it is determined that the packet is not the last packet in the stream. Graunke teaches the determination that a packet is not the last packet in the stream (Graunke, Figure 4B '134').

39. With regards to claims 33-35, 45-47, 52, 64, 82 and 90-93, Wasilewski as modified teaches a streaming session, but fails to teach examining means to determine if the client has been comprised. Graunke teaches examining means to terminate communication if the client has been compromised (Graunke, column 8 lines 33-60). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Graunke's disclosed examining means because it offers the advantage of helping prevent malicious users or code from modifying software in order to gain unauthorized access to digital content (Graunke, column 1 lines 14-44).

40. With regards to claims 37-38, Wasilewski as modified teaches the determining if a stream is unencrypted and the passing of the decrypted data to a higher level of operation (Graunke, column 4 lines 37-40). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Graunke's

method of passing unencrypted data to a higher level of operation because it allows the user to view the contents of the media (Graunke, column 2 lines 38-43).

41. With regards to claim 72, Wasilewski as modified teaches an implementation on an encryption bridge (Wasilewski, Figure 2 Item 11).

42. With regards to claim 83, Wasilewski as modified teaches the second portion of the data containing header and control data (Wasilewski, column 9 lines 34-36 and 51-62).

43. With regards to claim 99, Wasilewski as modified teaches the client transmitting a self-generated certificate (Graunke, column 8 lines 12-18, column 7 lines 10-15).

44. Claims 22, 41, 51, 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No 5,420,866 and Jackowski et al US Patent No. 6,141,686, as applied to claims 20, 39, and 57 above, and in further view of Graunke et al US Patent No 5,991,399 and Dorfman et al US Patent No 6,449,651.

45. With regards to claims 22, 41 and 58, Wasilewski as modified above fails to teach the examining of the client during the streaming session and terminating the streaming session if the encryption key is invalid. Graunke teaches examining means to terminate communication if the client has been compromised (Graunke, column 8 lines 33-60) and Dorfman teaches a determination if a key is invalid (Dorfman, column 7 line 53 – column 8 line 11). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Graunke's method of termination if a client is compromised and Dorfman's method of determining if a key is invalid.

because Graunke offers advantage of helping prevent malicious users or code from modifying software in order to gain unauthorized access to digital content (Graunke, column 1 lines 14-44), while Dorfman offers the advantages of ensuring that a key is not used beyond the expiration date (Dorfman, column 2 lines 55-65) and increasing security by ensuring a key has not been tampered with (Dorfman, column 3 lines 1-42).

46. With regards to claim 51, Wasilewski as modified teaches a feedback signal to stop transmission (Graunke, column 8 lines 57-60).

47. With regards to claim 59, Wasilewski as modified teaches the data source being a server (Wasilewski, column 8 lines 22-30), examining carried out on an encryption bridge between the server and the network (Wasilewski, Figure 2 Item 11), so encrypting and combining is transparent to the server (Wasilewski, column 7 line 64 – column 8 line 13).

48. With regards to claim 60, Wasilewski as modified teaches key negotiating and exchanging and the decryption using the key is carried out using a shim on the client (Wasilewski, column 9 lines 37-58, Figure 2 Item 206, Figure 6 Items 138 and 140) and the shim is configured so that negotiating and exchanging is transparent to the client (Wasilewski, Figure 2 Item 206).

49. Claim 98 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No 5,420,866 and Jackowski et al US Patent No. 6,141,686, as applied to claim 97 above, and in further view of Fawcett et al US Patent No 5,678,002.

50. With regards to claim 98, Wasilewski as modified teaches the accepting of a shim from a server that is selectively encrypting a portion of data (Wasilewski, column 9 lines 30-36, column 9 lines 37-58, Figure 2 Item 206, Figure 6 Items 138 and 140), but fails to teach a confirmation sent back from the shim. Fawcett teaches a confirmation sent back from a software module after accepting the module (Fawcett, column 8 lines 1-13). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Fawcett's method of sending confirmations because it offers the advantage of informing the server that a successful download is complete so further processing may then take place (Fawcett, column 8 lines 7-13).

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

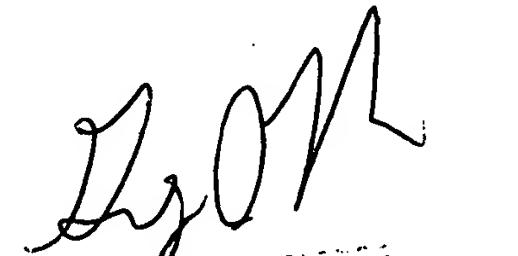
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

51. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 571 272 3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Nalven



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TECHNOL. 2134